

## CLAIMS

1. A receiver which is connected in the stage following  
a high frequency demodulator circuit for demodulating  
5 a received signal and which has both a high-cut control  
function and a de-emphasis function is made variable  
based on the reception level.

2. A receiver, comprising:  
10 a demodulation unit for demodulating a received  
signal;

an attenuation unit which is connected in the stage  
following the demodulation unit and which attenuates  
the high frequency component of a received signal;

15 a variable unit for making the cut-off frequency  
of the attenuation unit variable; and

a generation unit for generating a control signal  
for controlling the operation of the variable unit based  
on the reception level of the received signal.

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3. The receiver according to claim 2, wherein  
the generation unit generates a control signal for  
controlling the operation of the variable unit based  
on the reception level of the FM reception signal.

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4. The receiver according to claim 2, wherein  
the generation unit generates a control signal so  
that the cut-off frequency of the attenuation unit  
becomes smaller as the reception level of the received  
5 signal becomes lower.

5. A receiver, comprising:  
a demodulation unit for demodulating a FM reception  
signal;  
10 a resistor consisting of two or more resistors  
connected in the stage following the demodulation unit;  
a changeover unit for changing over the resistance  
value of the resistors;  
a capacitor which attenuates the high frequency  
15 component of the demodulated FM signal in combination  
with the resistors; and  
a generation unit for generating a control signal  
for controlling the changeover operation of the  
changeover unit based on the reception level of the FM  
20 signal.

6. The receiver according to claim 5, wherein  
the generation unit generates a control signal so  
that the resistance value of the resistors becomes larger  
25 as the reception level of the received signal becomes

lower.

7. A receiver which receives an FM signal or an AM signal, further comprising:

5 a demodulation unit for demodulating the FM signal or the AM signal;

a resistor consisting of two or more resistors connected in the stage following the demodulation unit;

10 a changeover unit for changing over the resistance value of the resistor;

a capacitor which attenuates the high frequency component of the demodulated FM signal or AM signal in combination with the resistors;

15 a first generation unit for generating a control signal for controlling the changeover operation of the changeover unit based on the reception level of the FM signal;

20 a second generation unit for generating a control signal for AM for controlling the changeover operation of the changeover unit based on the reception level of the AM signal; and

25 a selection unit for selecting either the control signal or the control signal for AM based on a received signal and outputting the selected signal to the changeover unit.

8. The receiver according to claim 7, wherein  
the first generation unit generates a control  
signal so that the resistance value of the resistor  
5 becomes larger as the reception level of the FM signal  
becomes lower.

9. The receiver according to claim 7, further  
comprising:  
10 a third generation unit for generating a control  
signal for FM for controlling the changeover operation  
of the changeover unit in order to change the time constant  
of the de-emphasis function, and wherein  
the selection unit selects either the control  
15 signal, the control signal for AM or the control signal  
for FM based on a received signal and outputs the selected  
signal to the changeover unit.